



BOROUGH OF BOURNEMOUTH.

❖ **REPORTS** ❖

OF THE

MEDICAL OFFICER OF HEALTH,

AND

CHIEF SANITARY INSPECTOR

FOR THE

Year ending December 31st, 1898.

PUBLISHED BY ORDER OF THE SANITARY AUTHORITY

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ANNUAL
Report of the Medical Officer of Health
FOR THE
BOROUGH OF BOURNEMOUTH.

HEALTH DEPARTMENT,
BOROUGH OFFICES,
BOURNEMOUTH,
February, 1899.

TO THE MAYOR AND TOWN COUNCIL, BOURNEMOUTH.

GENTLEMEN,

I have the honour to submit my Annual Report on the health of the Borough for the year ending December 31st, 1898.

POPULATION.

The Registrar General in his Annual Summary for the year 1897, estimates the population of Bournemouth at 58,820.

As mentioned in my last year's report this estimate is based on the rapid increase which took place in the preceding decade. I am however still of opinion that this rate of growth has not been so uniform or so rapid as he might suppose.

The Rate Collector (Mr. J. Phillips) informs me that there are 6,911 occupied houses, and 307 unoccupied, making a total of 7,218 in the Borough. If I take the figure 8 as in preceding years as a probable average number of inhabitants to each house, this would give us an estimated population of 55,288. I shall therefore for the purposes of this report base my birth rates and death rates on a population of 55,288.

VITAL STATISTICS.

The total number of births registered during the year was as follows :—Males, 354 ; Females, 359 ; Total, 713, which gives us a birth rate on our estimated population of 13'0 per thousand,

I herewith append the birth tables from the year 1888 inclusive :

Year.	Males.	Females.	Total.
1888	380	322	702
1889	329	360	689
1890	414	355	769
1891	407	384	791
1892	435	408	843
1893	404	436	840
1894	450	435	885
1895	427	383	810
1896	394	381	775
1897	377	352	729
1898	354	359	713
Totals	<u>4371</u>	<u>4175</u>	<u>8546</u>

DEATH RATE.

The total number of deaths registered during the year was 630, giving a mortality rate of 11·6 per 1000 on the estimated population.

The Registrar of Deaths has marked in the returns the deaths occurring in visitors which are as follows :—Visitors, 238 ; Residents, 392 ; Total, 630.

The death rate therefore on estimated population of the two classes would be as follows :—

Population	{ Visitors 4·3 }	= 11·4 per 1000
55,000	{ Residents 7·1 }	

The deaths from the two classes for the past 4 years are as follows :—

	1895.	1896.	1897.	1898.
Deaths of Visitors	150	214	180	238
Deaths of Residents	<u>453</u>	<u>383</u>	<u>419</u>	<u>392</u>
Totals	<u>603</u>	<u>597</u>	<u>599</u>	<u>630</u>

The death rate for England and Wales is 17·43 per 1000.

„	in 33 large towns	20·65	„
„	in 67 other large towns	17·2	„
„	in Bournemouth	11·4	„

The zymotic death rate in 33 large towns is 2·87 per 1000.

„	„	in London	2·58	„
„	„	in 67 towns (of which Bourne-		
		mouth forms one)	2·41	„
„	„	in Bournemouth	·08	„

For comparison I herewith append an analysis of the deaths and the rate per 1000 under the various headings for the past 7 years,

	1892	1893	1894	1895	1896	1897	1898
	per 1000	per 1000	per 1000	per 1000	per 1000	per 1000	per 1000
Smallpox - -	'0	'02	'02	'0	'0	'0	'0
Scarlatina - -	'0	'11	'04	'08	'02	'09	'0
Diphtheria - -	'18	'04	'09	'12	'08	'11	'03
Membranous Croup	'08	'0	'04	'02	'04	'01	'01
Typhus - - -	'0	'0	'0	'0	'0	'0	'0
Enteric Fever - -	'05	'0	'02	'04	'08	'07	'0
Continued Fever -	'0	'0	'0	'0	'0	'0	'0
Relapsing Fever -	'0	'0	'0	'0	'0	'0	'0
Puerperal Fever -	'02	'04	'04	'0	'0	'05	'0
Cholera - - -	'0	'0	'0	'0	'0	'0	'0
Erysipelas - -	'0	'0	'04	'02	'02	'0	'01
Measles - - -	'08	'07	'0	'08	'25	'0	'0
Whooping Cough -	'02	'33	'04	'29	'0	'16	'01
Diarrhœa - - -	'31	'33	'0	'31	'12	'18	'45
Rheumatic Fever -	'0	'04	'04	'02	'06	'01	'01
Ague - - -	'0	'0	'0	'0	'0	'0	'0
Phthisis - - -	4'01	3'6	2'61	2'85	3'2	2'64	2'62
Other Respiratory Disorders }	3'02	2'0	1'64	1'72	1'2	1'1	1'2
Heart Disease - -	1'5	2'0	'47	1'72	1'2	1'1	1'6
Influenza - - -	*—	*—	*—	'31	'04	'09	'01
Injuries - - -	'37	'42	'38	'29	'35	'16	'18
Other Diseases - -	7'06	5'3	6'90	4'89	5'8	5'3	5'1

* Not recorded.

Death rate per 1000 at various ages for past 7 years.

DEATHS	1892	1893	1894	1895	1896	1897	1898
Under 1 year	3'1	2'7	1'97	2'21	2'0	1'6	1'6
Over 1 yr. & under 5 yrs.	'8	'75	'64	'91	'78	'94	'45
" 5 " 15 "	'6	'59	'45	'42	'48	'41	'38
" 15 " 25 "	1'8	1'4	1'28	1'23	1'2	1'1	1'01
" 25 " 65 "	6'9	5'6	5'78	4'93	5'6	4'56	5'1
" 65 and upwards	3'4	3'3	2'30	3'10	2'4	2'58	2'78

In 1896 the total deaths under one year of age were 94.

In 1897 the deaths were 89.

In 1898 the deaths were 91, of these 22 were of premature birth, many only living a few minutes or days.

Number of suicides in 1896 -	-	-	-	6
" " in 1897 -	-	-	-	3
" " in 1898 -	-	-	-	5
Deaths from Injuries in 1896	-	-	-	17
" " in 1897	-	-	-	9
" " in 1898	-	-	-	10

The deaths recorded in the Public and Charitable Institutions of the town during the past three years were as follows :—

Name of Institution.	Persons belonging to District.			Persons not belonging to District.			Total.		
	1896	1897	1898	1896	1897	1898	1896	1897	1898
Sanitary Hospital -	4	6	1	1	1	1	5	7	2
Sanatorium -	1	0	0	1	5	3	2	5	3
Royal Victoria Hos- pital }	8	22	16	15	15	20	23	37	36
Firs Home -	1	0	2	15	13	16	16	13	18
Boscombe Hospital -	4	6	7	4	4	1	8	10	8
St. Joseph's Home -	0	0	1	6	5	4	6	5	5
Herbert Home -	0	0	0	2	0	3	2	0	3
Hahnemann Home -	1	0	1	2	1	0	3	1	1
Springbourne Or- phanage }	0	0	1	0	0	1	0	0	2
"Glenbank," Con- valescent }	0	0	0	2	0	1	2	0	1
Inverness House -	*	*	0	*	*	5	*	*	5
Totals -	20	34	29	48	44	55	67	78	84

* Not recorded.

Of the total number of deaths recorded during the past year, I note there were 117 deaths of persons at 70 years of age and upwards.

I herewith append a table showing the number of deaths of those over 70 years of age for the past four years at their respective ages :—

AGE.		NUMBER OF DEATHS.			
		1895.	1896.	1897.	1898.
At 70 years	-	9	5	3	7
" 71 "	-	5	5	3	12
" 72 "	-	7	7	9	10
" 73 "	-	12	5	6	4
" 74 "	-	6	9	6	9
" 75 "	-	5	7	6	10
" 76 "	-	8	7	7	11
" 77 "	-	9	6	7	10
" 78 "	-	2	5	3	5
" 79 "	-	11	6	5	7
" 80 "	-	1	4	4	3
" 81 "	-	5	3	5	5
" 82 "	-	6	3	4	4
" 83 "	-	1	4	4	1
" 84 "	-	2	1	4	3
" 85 "	-	2	1	5	2
" 86 "	-	1	3	2	2
" 87 "	-	2	1	3	1

AGE.	NUMBER OF DEATHS.				
At 88 years	-	1	0	0	3
„ 89 „	-	0	1	1	2
„ 90 „	-	1	0	2	2
„ 91 „	-	0	4	1	0
„ 92 „	-	2	1	0	1
„ 93 „	-	0	0	0	1
„ 94 „	-	0	0	0	2
„ 95 „	-	2	0	0	0
„ 96 „	-	0	0	1	0
„ 97 „	-	0	1	1	0
„ 98 „	-	0	0	0	0
„ 99 „	-	0	0	0	0
„ 100 „	-	1	0	0	0
„ 101 „	-	0	0	0	0
„ 102 and 5 months	-	1	0	0	0
Totals		<u>102</u>	<u>89</u>	<u>94</u>	<u>117</u>

INFECTIOUS DISEASE.

The total number of deaths due to notifiable disease was 4. Of these 2 were due to Diphtheria, 1 to Membranous Croup, and 1 to Erysipelas.

The following are the particulars connected with each case :—

DIPHTHERIA.

1. October 15th, E.M.U., aged 10 years. The daughter of a ratepayer in the town, residing at Parkstone. This case was admitted into the Sanitary Hospital as an imported case.

2. November 30th, E.B., aged 5 years. Living in the Springbourne Ward. Died at home. Insanitary conditions were found at the dwelling house, with possible escape of sewer gas into the house.

MEMBRANOUS CROUP.

1. September 16th, W.J.R., aged 3 years. Removed to the Royal Victoria Hospital where he died. Insanitary conditions found at the residence.

ERYSIPELAS.

1. October 22nd, J.Q., aged 32 years. A visitor who was admitted into the Royal Victoria Hospital from Branksome and died on October 22nd in that Institution.

Under the Infectious Diseases Act, 1889, the undermentioned cases have been notified during the past six years :—

		1893.	1894.	1895.	1896.	1897.	1898.
Scarlet Fever	-	313	101	97	89	105	64
Diphtheria	-	10	19	26	29	35	17
Enteric Fever	-	12	8	9	7	14	6
Variola	-	4	8	0	1	0	0
Erysipelas	-	37	18	7	20	13	10
Membranous Croup	-	2	3	0	0	1	0
Peurperal Fever	-	5	1	1	0	4	3
Continued Fever	-	1	1	1	0	1	0
Relapsing Fever	-	0	0	1	0	0	0
Totals		384	159	142	146	173	100

The following table will show the months of the past year in which these several cases were notified :—

Months Notified.	Scarlet Fever.	Diphtheria.	Typhoid.	Variola.	Erysipelas.	Membranous Croup.	Peurperal.	Continued.	Relapsing.	Totals for Each Month.
January ...	8	4								12
February ...	9	0			1					10
March ...	4	4			1					9
April ...	6	2	1							9
May ...	4	0			1		1			6
June ...	3	2			1					6
July ...	2	1	1		1		2			7
August ...	1	1			1					3
September ...	2	1								3
October ...	13	0	4		1					18
November ...	4	2			2					8
December ...	8	0			1					9
Totals for Year	64	17	6		10		3			100

Of the total number of cases of *scarlet fever*, notified during the year, there has been a very considerable diminution. This disease as in former years has always been of an extremely mild type, and in many cases the diagnosis has been difficult. So slight are these cases that in some the disease has not been notified until the scaling process has commenced.

The cases of *diphtheria* notified are less than half they were in the preceding year. Of the 17 cases notified 12 were removed to the Sanitary Hospital, with 1 death; and 5 were nursed at home with 1 death.

The cases of *typhoid fever* notified during the past year were only 6 and the particulars are as follows :—

1. A.M., in April, removed to the Sanitary Hospital. A girl in a travelling Theatre Company, came from Belfast ill, two of the company having been left behind suffering with the same disease.

2. F.H., in July. A schoolgirl. Cause unknown. Nursed at home. No insanitary conditions could be found at the dwelling-house.

3. E.C., in October. Nursed at the Sanitary Hospital. A lady cyclist. Disease probably contracted at Lulworth, possibly from infected milk.

4. L.C., in October. Ditto.

5. B.R., in October. Nursed at the Sanitary Hospital. A Domestic Servant, who had gone home to Long Ash, Milton Abbas, for a holiday. The disease was brought into her home from a case in London, where it spread to other members of the family.

6. K.A., in October. Nursed at the Sanitary Hospital. Very slight insanitary conditions found at the dwelling-house.

All the above cases were serious but they all made a good recovery. You will note that four of the cases were undoubtedly imported and of the remaining 2 the causes were doubtful.

SLAUGHTERHOUSES.

The six slaughterhouses have been under regular supervision. At my last visit, I notice that there has been a considerable improvement. In respect to one of these places I note that more care might be taken.

WATER SUPPLY.

The water supply of the District has been under constant supervision. A monthly sample has been submitted to an eminent Public Analyst and Bacteriologist. Copies of two reports are herewith appended. The whole of the water service and collecting areas

have been visited by me and as far as I could ascertain every care and precaution seems to be taken to secure the purity of the supply. The systems of filtering and aeration are carefully managed. I am pleased to state here that the Water Company and their Resident Engineer have at all times rendered me any service in their power.

THE CLINICAL RESEARCH ASSOCIATION, LTD.,
1, SOUTHWARK STREET,

LONDON BRIDGE, S.E.,

January 28th, 1898.

LABORATORY REPORT.

To Dr. P. W. G. Nunn,

The specimen of water marked "From Hydrant, St. John's Wood Road," received here on January 18th, has been duly examined and I have been instructed to forward the following report thereon :—

This sample of water has been examined for evidences of sewage and for the *Bacillus Typhir Abdominalis*. The latter could not be found. Examinations to find the *Bacillus Coli Communis* showed that no *Bacilli Coli Communis* were present in 1 cubic centimetre, 5 c.c., 10 c.c., 25 c.c., 100 c.c. or 150 c.c., of the water.

Taking both the quantitative and qualitative examinations into consideration, we look upon the water as one of good quality.

There is no evidence of sewage contamination and the sample in its present state is a safe one for drinking purposes.

It will be seen that these results are in absolute accord with the chemical results. The sample of water was found to contain 90 organisms per cubic centimetre.

CHEMICAL DATA.

					Grains per gallon.
Total Solid Residue (dried at 120°c) -	-	-	-	-	19.95
Combined Chlorine -	-	-	-	-	1.40
Expressed as Common Salt -	-	-	-	-	2.31
Nitrogen as Nitrates -	-	-	-	-	0.123
Nitrites -	-	-	-	-	absent
Saline Ammonia -	-	-	-	-	traces only
Albumenoid Ammonia -	-	-	-	-	0.0043
Oxygen required to oxydise the organic matter-					0.050
Hardness (in degrees) -	-	-	-	-	15.5
Lead or copper -	-	-	-	-	absent

OBSERVATIONS.--The above Chemical Data indicate that this water is of a satisfactory degree of purity and that it may be considered safe for drinking purposes.

(Signed) C. H. WELLS,

Secretary of the Association.

BRITISH INSTITUTE OF PREVENTIVE MEDICINE,

26th July, 1898.

Report on examination of sample of water received from Dr. P. W. G. Nunn, Bournemouth, on 20th July, 1898.

The sample of water marked "From Cabstand, Westover," was received at the Institute on 20th July, and kept on ice until the bacteriological examination was commenced.

One cubic centimetre of the sample contains on an average 39 bacteria, which are capable of development on gelatin at a temperature of 22°. And of these the ratio of bacteria which liquify the medium to that of those which do not so act is as 1 to 4. The special examination for bacteria which might by their presence indicate the occurrence of harmful organic contamination gave entirely negative results.

The general microscopic examination showed only a few particles of mineral matter and no sign of organic contamination.

This water appears to be of excellent quality and well adapted for use as a drinking water.

(Signed) ALEX. G. R. FOULERTON,
F.R.C.S., D.P.H., Camb.

ANALYTICAL DATA.

GENERAL CHARACTERISTICS.—The water was almost entirely free from sediment, and was quite free from any objectionable odour.

							Parts per 100,000
Suspended matter	-	-	-	-	-	-	—
Dissolved Solids	-	-	-	-	-	-	26.0
Chlorine	-	-	-	-	-	-	1.8
Alkalinity, expressed as Calcium Carbonate	-	-	-	-	-	-	.18
Free and Saline Ammonia	-	-	-	-	-	-	—
Albumenoid Ammonia	-	-	-	-	-	-	.006
Nitrogen as Nitrites	-	-	-	-	-	-	—
Nitrogen as Nitrates	-	-	-	-	-	-	.08
Oxygen absorbed from Permanganate at 80°F							
(a) 15 minutes	-	-	-	-	-	-	.03
(b) 4 hours	-	-	-	-	-	-	.059
Injurious metals	-	-	-	-	-	-	—

REMARKS.—The sample is of slightly better quality than that last examined at the Institute and possesses all the chemical characteristics of a drinking water of good quality.

(Signed) ARTHUR HARDEN,
Ph. D., M.Sc.

GENERAL SEWERAGE SYSTEM.

The following are some of the improvements that have been carried out in our public sewers during the past year :—

The laying of a 2ft. relief sewer in the Sea Road, Christchurch Road and Palmerston Road, respectively, and a new 36in. storm overflow at the Boscombe Pier. These works were rendered necessary by the rapid development of the Boscombe area, by which the sewers in the neighbourhood of the Arcade became surcharged in times of storm.

The re-laying of a further portion of the sewers from the Bournemouth Arcade to the Gervis Road. This work was carried out in tunnel ; the old sewer which was in a very dilapidated and dangerous condition being replaced by a 2ft. cast iron sewer. The remaining portion from the East of the Arcade to the Hinton Road, is, I am informed, in an equally bad condition and requires to be similarly re-laid.

A new 9in. sewer in the rear of 1 to 10 and 23 to 26, West Cliff Grove, which removes the necessity of the drains of these houses being carried beneath their floors.

The re-construction of existing sewers through the grounds of Number 3, Stanhope Gardens, and in the rear of 226 and 236, Old Christchurch Road, both of which were in a very defective condition.

BAKEHOUSES.

The Bakehouses in the District have been visited by me. I note that there is an improvement generally in the condition in which these bakehouses are kept, and any suggestions I may have made have been readily complied with.

DAIRIES AND MILK SUPPLY.

All the Dairies and Milk Shops of the Borough have been visited by me. I am pleased once again to bear my testimony to the care the proprietors take in the conduct of their businesses.

Of all the trades that supply the public with articles of food there is no trade in which such care and strict sanitary supervision is so important. All the milk that is purveyed in the Borough is obtained from districts or farms which are situated outside the Borough boundaries. There are no cows kept in the town. For many years past I have continued to advise the traders to make such terms in their contracts with the farmers as shall secure and enable them to guarantee to the public the purity of their goods,

In August last I called together all the dairy purveyors of the town on a matter which was affecting the purity and the quality of the milk. As a result of that conference, they passed a unanimous resolution, agreeing to form themselves into an Association. The objects of this Association will result, I have no doubt, in an advantage to the dairyman as well as to the public.

In a report of mine sent in to your Council, dated December 20th, on Bovine Tuberculosis as affecting milk supply, I called particular attention to certain clauses of the Report of the Royal Commission which had been appointed to enquire into the administrative proceedings for controlling danger to man through the use as food, of the meat and milk of tuberculous animals. The recommendations, as contained in my report, have since been adopted by your Council, and the Town Clerk has been instructed to prepare forms of municipal certificates.

During the past year I have procured samples of milk and submitted them to bacteriological examination, with special reference to the existence of the tubercle bacillus in the samples that have been so taken and examined, and in not one instance has the tubercle bacillus been found.

BURNING OF GARDEN REFUSE.

This nuisance still continues, but I'm glad to say in a less degree. I have had occasion to report to your Council on this matter during the past year, but no proceedings were taken against the offender.

If any ratepayer or ether person in the District is annoyed by this nuisance I think it would be as well for them to report the same to your Council, who in that case ought to take proceedings.

The arrangement which your Council have made for the removal of the garden refuse, ought to prevent a continuance of these garden fires. Any unnecessary contribution of an offensive smoke nuisance is decidedly prejudicial to the purity of the atmosphere as also the health reputation of the town, and should be rigorously prevented.

BRICK AND ASH REFUSE BURNING.

The brick-yard at the North Eastern end of the Town still continues working and in certain conditions of the wind the smoke from this kiln passes into the town.

I must again repeat what I said last year, namely, that if this nuisance is permitted to continue it would be detrimental to the health interests of that locality.

The deposit of ash refuse by the Corporation on the common and the partial burning of the same before covering, has also contributed to the smoke nuisance.

If the present Ash Refuse Destructor is not large enough to properly cremate all the refuse of the town, it would in my opinion be advisable to erect an additional cremator in some other and convenient part of the District.

HOUSE-TO-HOUSE INSPECTION.

The House-to-house Inspection is nearing its completion. The Boscombe District with the exception of the main road has during the past year been finished.

It is satisfactory to note that in no case was it necessary to apply to the law to carry out our suggestions.

There still remains the Malmesbury Park District to be inspected.

Of all the sanitary work that has been done in the Borough during the past ten years there is no more important work than this. If a municipality desires perfection within its borders, each unit house must be made as safe as possible.

SANITARY CERTIFICATES.

Fifty-nine houses during the past year have been examined with the view of obtaining my certificate.

BY-LAWS.

Early in the year in conjunction with the Surveyor and the Chief Sanitary Inspector we drafted a report on the Regulations with regard to the sanitary arrangements of houses, shewing (1) What works are required to ensure the compliance of the By-laws, and (2) What additional works are necessary to obtain a Certificate from the Sanitary Department.

The Building By-laws are for all practical purposes a copy of the Model Building By-laws of the Local Government Board and these have been in force in the District for many years. As can be seen by this report these By-laws in respect to our present requirements for Sanitary Certificate are somewhat obsolete.

By your adoption of these requirements any difficulty between the Surveyor and Sanitary Department has now been obviated.

SANITARY HOSPITAL.

The following table, No. 1, gives a summary of the patients and diseases treated in the Hospital from the year of its establishment in 1886 to the present time, and in tables No. 2 and 3 I show the cost of patients and staff during the past four years and analysis :—

Number 1.

TABLE SHOWING NUMBER OF CASES TREATED IN THE SANITARY HOSPITAL
SINCE 1886.

Year.	Estimated Population.	Scarlet Fever.	Diph- theria.	Typhoid	Variola.	Other cases.	No of cases in Quarantine Cottages.	Deaths.	Total of all cases received in hospital.	Giving a Death Rate per cent. of all cases admitted.	Remarks.
1886	27,000	21	1		15	8		1 Variola	45	2.22	Hospital established this year. One Pavilion and Administrative Block.
1887	32,025	19	4	1		11		1 Typhoid	35	2.85	Also a Lyons Steam Disinfecter.
1888	33,025	9	5	1		12		1 Diph	27	3.70	Quarantine Cottages Purchased.
1889	36,375	10	2	1		8			21		
1890	37,320	3	7	1		6		1 Typhoid	17	5.88	Notification of Infectious Diseases Act, adopted.
1891	37,781	35	6	5		6		1 S.F. 1 Typ 1 Diph.	52	5.77	
1892	40,600	76	10	4		9		1 Diph. 1 S.F. 1 Var	99	2.02	Bournemouth Improvement Act, 1892, passed. Iron pavilion erected (8 beds).
1893	42,000	257	5	5	4	13	19	1 Diph. 3 S.F. 1 Var	284	1.76	S.F. very prevalent all over the country. Three Berthon Huts purchased (9 beds).
1894	42,600	106	8	3	14	13	22	1 Variola 1 Diph.	144	1.38	Variola outbreak in the Springbourne Ward. Three of these 14 cases lived outside the Borough, but were caused by cases in our district.
1895	47,000	92	15	5		6	10	4 S.F. 3 Diph.	118	5.93	
1896	50,000	81	22	8	1	17	6	2 Diph 1 Ty 1 S.F. 1 Brain	137	3.65	New Pavilion opened giving an additional 26 beds.
1897	53,008	104	27	6		13		5 S.F. 2 Diph.	150	4.9	New oak floors provided to old block, with additional bath room and improved system of heating.
1898	55,000	73	22	7		16		1 Pneu. 1 Dp Imported.	123	1.75	Berthon Huts re-painted.

Number 2. SANITARY HOSPITAL. EXPENDITURE, &c., FOR YEARS 1895, 1896, 1897 AND 1898.

Month.	Total Expenditure, including Repairs, Wages, &c.				Expenditure on Provisions only.				Daily Average No. of Persons per month.				Average Cost per head per day.			
	1895.		1896.		1897.		1898.		1895.		1896.		1897.		1898.	
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
January ...	100 1 6	104 14 8	146 6 9	155 16 6	32 15 10	32 7 1	42 19 11	50 6	5 21 29	30 19 34	00 28 55	3 0 9	2 2 2	2 9 1	3 6	d.
February	85 16 6	132 2 1	102 6 1	129 15 11	24 10 5	26 8 4	37 2 9	32 5	9 16 18	17 86 30	53 24 68	3 9 9	5 1 2	2 0 3	3 9	s.
March ...	112 5 6	91 13 5	146 4 0	179 0 9	26 6 3	26 0 9	36 14 7	48 9	9 16 52	18 35 28	78 26 32	4 4 1	3 2 1	3 3 1	4 5	s.
April ...	70 12 11	93 4 8	101 9 8	131 4 1	29 2 0	27 7 2	37 9 5	36 5	3 18 93	19 50 30	20 24 13	2 8 8	3 2 2	2 2 2	3 6	s.
May ...	54 14 4	70 3 7	85 18 10	109 10 3	28 14 5	28 6 0	30 6 10	41 19	2 17 83	21 30 23	94 26 26	2 0 0	2 2 2	2 6 2	2 8 1	s.
June ...	101 12 5	83 9 7	120 16 3	113 8 6	28 9 4	24 12 5	46 10 1	34 1	5 15 56	14 20 36	00 23 4	4 4 1	3 11 2	2 2 2	3 3	d.
July & Aug.	161 19 7	131 16 9	195 4 11	155 17 11	50 17 9	44 10 10	70 9 6	59 9	2 17 00	13 77 24	57 20 04	3 0 1	3 0 1	2 8 1	2 6	s.
September	71 14 9	112 16 6	103 14 11	77 7 1	17 18 5	32 8 0	32 10 0	22 0	11 11 86	23 20 20	17 12 33	4 2 1	3 3 3	3 5 4	3 3 1	s.
October ...	94 3 5	134 17 7	113 11 10	117 14 9	32 10 4	41 0 9	33 11 3	33 7	7 29 00	33 74 17	40 22 38	2 1 2	2 7 3	3 4 1	3 5	s.
November	89 4 7	135 7 4	95 1 6	135 9 7	37 9 5	48 10 8	36 6 1	43 4	11 31 83	46 80 17	23 35 8	1 10 1	1 11 1	3 9 2	2 7	s.
December	127 14 9	146 10 2	160 7 7	128 16 8	38 16 1	45 2 5	54 14 4	43 12	0 31 58	32 26 31	48 27 74	2 7 1	2 11 3	3 3 3	2 11	s.
Total ...	1076 0 3	1236 16 4	1371 2 4	1414 2 0	347 10 3	376 14 5	458 14 9	445 2 4								

Number 3. COMPARATIVE STATEMENT FOR 4 YEARS.

YEAR.	Average No. of Persons inclusive of Staff in Hospital per day.	Total average cost per person per day which includes all administrative expenses.	Average cost per person per day for provisions alone, including stimulants	Amount paid by Patients to Borough Treasurer.	Total expenditure for the year after deducting receipts from Patients.
1895	20·69	£ s. d. 0 3 1	£ s. d. 0 0 11¼	£ s. d. 366 11 5	£ s. d. 709 8 10
1896	24·65	0 3 0	0 0 10	259 8 8	977 7 8
1897	26·76	0 2 9¼	0 0 11¼	333 12 6	1037 9 10
1898	24·3	0 3 2¼	0 1 0	355 1 3	1059 0 9

Number 4. *STATEMENT OF LOANS relating to land and buildings in connection with Sanitary Hospital.*

Amount Originally Borrowed.	Present Amount of Stock and Mortgage Loans.		Annual Amount of Sinking Fund or Instalment of Principal.		Interests and Dividends.		Total Annual Payments.
	Stock.	Mortgage.	Sinking Fund Stock.	Instalments Mortgage Loans.	Dividend on Stock.	Interest on Mortgage Loans.	
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1400 0 0	822 18 6		23 4 6		29 14 10		52 19 4
3900 0 0	2246 13 7		63 8 0		75 18 9		139 6 9
1000 0 0	504 6 6		14 4 9		18 5 1		32 9 10
1265 0 0	910 0 4		25 13 8		32 18 4		58 12 0
4200 0 0	3743 19 7		100 6 4		120 2 8		220 9 0
160 0 0		145 16 9		1 11 1		5 14 0	7 5 1
650 0 0	590 11 8		13 15 1		1 10 4		15 5 5
12575 0 0	8818 10 2	145 16 9	240 12 4	1 11 1	278 10 0	5 14 0	526 7 5
	8964 6 11		242 3 5		284 4 0		

From the foregoing report your Council will note that the Borough has continued to maintain a high standard of public health. The death rate of 11·6 when contrasted with the rates in other towns or with the general rates of England and Wales is very favourable, more especially is this so when we take into consideration the fact that of the total deaths, 630, no less than 238 of them occurred amongst the visitor class ; so many of whom come here in the last stages of their diseases.

There is another fact in the report which to my mind bears the strongest testimony and is most indicative of our good health conditions, and that is the extremely low zymotic death rates when compared with other towns in England (*vide* page 3). To that fact I desire to call your special attention.

I have the honour to remain,

Your obedient servant,

PHILIP W. G. NUNN,

Medical Officer of Health.

Borough of Bournemouth.

ANNUAL

REPORT OF THE CHIEF SANITARY INSPECTOR

For the Year ending December 31st, 1898.

TO THE MAYOR AND TOWN COUNCIL,
BOURNEMOUTH.

GENTLEMEN,

I beg to submit for your consideration my Twelfth Annual Report of the sanitary works executed under your Authority for the year ending December 31st, 1898.

BAKEHOUSES.

There are 55 bakehouses within the Borough. Forty-two are built above ground, the remaining 13 being in the basement. Five new bakehouses have been built during the year.

All the bakehouses have been limewashed and cleansed in accordance with the Regulations, and improvements have taken place in four instances. All the premises have now a separate supply of water for bakehouse purposes only.

Thirteen formal notices have been sent to bakers, as to cleansing and limewashing.

Occasional early morning inspections have been made of these premises, for the detection of smoke nuisances, but it has not been necessary to take formal action.

FISH AND POULTRY SHOPS.

These shops have been occasionally visited, with the view of ascertaining if any undue accumulation of offal, &c., is allowed to remain on the premises longer than necessary.

The late collection on Saturday night is being kept up and is still greatly appreciated by the Poulterers and Fishmongers, and no accumulation of offal, &c., is now permitted to remain on the premises on Sundays.

SLAUGHTERHOUSES.

There are six slaughterhouses in the Borough. These have been periodically inspected, and the By-laws relating to cleansing, removal of blood, garbage, &c., as far as practicable, strictly enforced.

Structural improvements, under notice of advice, have been made in two instances.

Owing to the development of the neighbourhood in which the slaughterhouses are situated, and that the trade may be carried on with the least possible nuisance, more attention is now required to be given to these places, with the view of enforcing the Regulations and By-laws relating to private slaughterhouses.

Two formal notices and five letters as to cleansing, &c., of premises have been sent to the butchers during the past year.

UN SOUND MEAT, VEGETABLES, &c.

Periodical inspection has been made of shops, &c., within the Borough, with the view of detecting the exposure or sale of unsound meat, fruit, and other articles of food.

In carrying out the duties under these sections of the Public Health Acts, I seldom find it necessary to take formal action, the food supplies of the Borough being as a rule most satisfactory.

INFECTIOUS DISEASE.

During the past year 130 premises have been inspected at which infectious disease has been notified, and the usual inquiries made as to the source of the disease, school, employment, &c. Of the cases notified, 98 were removed to the Sanitary Hospital, 32 cases were nursed at home, and in 30 cases the notifications were afterwards withdrawn, thereby reducing the total of infectious cases for the year to 100.

Where the patient is not removed to the Hospital the Inspector of the district calls from time to time, and insists on isolation as far as practicable, and a pamphlet form of suggestions is left at the house where the patient resides, giving particulars as to the nursing, disinfection, penalties, &c.

The drainage and sanitary arrangements of all the premises where infectious disease has been notified have been subjected to the smoke test, and in 72 cases the sanitary condition of the houses was found to be unsatisfactory. The usual notices were served on the owners or occupiers, calling their attention to the defects, and requesting them to remedy the same, and the necessary alterations have been made in each instance. A written report, giving the particulars of the enquiries made and the result of the sanitary inspection, has been supplied to the Medical Officer of Health in each case.

In cases occurring among school children, notice is sent to the teacher advising that any other children of the same family, or in the same house, be kept in quarantine for the necessary number of days. Fifty-one such notices have been served upon the school teachers, and a similar number on the parents of the children.

The house drains and sewers, where necessary, have also been flushed with disinfectant, under the supervision of one of the Inspectors.

In accordance with your instructions, should a Public Library Book be found at the house where infectious disease has occurred, it is disinfected and returned to the Librarian. If the book has been in actual contact with the patient, and it is thought necessary, the book is destroyed, so as to minimise the risk of such books being the means of infection. During the past year 22 books have been disinfected and returned to the Public Library.

The following effectual work for preventing the spread of infectious disease has been done by Washington Lyon's dry air and steam disinfector :—

You will notice there has been a large increase in the number of articles disinfected since the charges for disinfection were abolished last year.

The disinfecting chamber has been used to disinfect 1,927 articles of bedding, clothing, &c., that have been subject to infection. This disinfection is independent of what is required for the patients at the Hospital.

Beds	disinfected	-	-	-	-	48
Mattresses	"	-	-	-	-	101
Palliasses	"	-	-	-	-	78
Bolsters	"	-	-	-	-	71
Pillows	"	-	-	-	-	194
Blankets	"	-	-	-	-	305
Sheets	"	-	-	-	-	188
Counterpanes	"	-	-	-	-	76
Rugs	"	-	-	-	-	40
Carpets	"	-	-	-	-	61
Dresses	"	-	-	-	-	31
Curtains	"	-	-	-	-	21
Jackets	"	-	-	-	-	20
Quilts	"	-	-	-	-	21
Table Covers	"	-	-	-	-	16
Shawls	"	-	-	-	-	23
Cushions	"	-	-	-	-	36
Towels	"	-	-	-	-	86
Coats	"	-	-	-	-	11
Trousers	"	-	-	-	-	12
Vests	"	-	-	-	-	20
Sundries	"	-	-	-	-	468
Total		-	-	-	-	<u>1927</u>

Number of rooms disinfected	-	-	-	-	-	-	140
Number of rooms fumigated by the Inspectors after Phthisis, &c.							42

DAIRIES, COWSHEDS, & MILKSHOPS' ORDERS.

There are 101 Dairies, Milkshops and Purveyors registered for the sale of milk within the Borough.

During the past year improvements, under notice of advice, have taken place in five instances.

The Regulations relating to the above Orders have been satisfactorily complied with in each case.

There are no registered cowsheds within the Borough.

It is satisfactory to report that in the larger dairies the latest improvements in dairy appliances are provided, and in nearly all instances proper and sufficient apparatuses are fixed for the purpose of sterilizing the milk. The demand for such a supply appears to be increasing.

WATER SUPPLY.

91 Separate supplies of water direct from the main have been provided for supplying water for drinking purposes only.

264 Cisterns have been cleansed under notice of advice.

6 New Cisterns (galvanized iron) have been substituted for leaky and defective slate cisterns.

40 Defective water fittings, ball cocks, &c., repaired and put in order.

During the past year eight samples of water for analysis have been taken from hydrants at the following places for the Medical Officer of Health :—

Date.	Time.	Where Obtained	By whom Analysed.
January 17th, 1898.	12 p.m.	Hydrant at St. John's Wood Road.	British Institute of Pre- ventive Medicine.
January 18th, 1898.	—	Hydrant at St. John's Wood Road.	The Clinical Research Association, Limited.
March 31st, 1898.	10 a.m.	Hydrant at Sanatorium Road.	British Institute of Pre- ventive Medicine.
May 23rd, 1898.	12.50 p.m.	Well at the Pumping Station, Longham.	Arthur Angell, Esq., PH.D. F.I.C., Southampton.
May 23rd, 1898.	1 p.m.	River Stour, Longham.	Arthur Angell, Esq., PH.D. F.I.C., Southampton.
May 23rd, 1898.	12 p.m.	Reservoir at Filter Beds, Alderney.	Arthur Angell, Esq., PH.D. F.I.C., Southampton.
July 20th, 1898.	12 p.m.	Hydrant at Westover Road.	British Institute of Pre- ventive Medicine.
September 12th, 1898.	12.15 p.m.	Hydrant at Sanatorium Road.	British Institute of Pre- ventive Medicine.

ACTION TAKEN FOR THE ABATEMENT OF NUISANCES.

- 92 Preliminary notices have been served.
- 15 Formal notices have been served.
- 254 Premises have been formally reported to the Sanitary Committee.
- 746 Letters and Reports *re* unsanitary premises.
- 214 Reports have been made specifying the works necessary to obtain the Sanitary Certificates.
- 450 Nuisances complained of have been attended to and the defects remedied.
- 134 Premises have been inspected, and the necessary sanitary alterations executed to abate nuisances, which were detected on making general inspections of the Borough. This number includes 69 offensive catchpits in public thoroughfares.
- 76 Nuisances have been abated, which were detected on examining infected premises.

The following is a detailed list of the works executed under the above notices, reports, &c. :—

DRAINS.

- 122 Drains condemned and new ones substituted.
- 623 Defective house drains cleared from obstruction and repaired.
- 144 Drains provided with intercepting traps and fresh air inlets.
- 146 Disconnecting and inspection chambers built.
- 30 Stables provided with effectual drainage.

VENTILATING SHAFTS.

- 71 Drains ventilated by 4in. shafts.
- 41 Defective zinc ventilating shafts for soil-pipes re-placed by 4in. iron pipes.
- 12 Defective soil-pipes inside the house removed and fixed on outside walls and ventilated.
- 218 Nuisances abated, arising from defective soil-pipes and ventilating shafts, with leaky joints, terminating near windows.

W.C.'S.

- 12 New w.c.'s built.
- 152 Defective w.c.'s removed, and replaced by "valves" or "washdown" apparatus.
- 385 Closets repaired, put in working order, and provided with an effectual flush of water.
- 102 New drawn lead traps and connections and trays provided to w.c.'s.
- 20 w.c.'s provided with effectual light and ventilation.
- 10 closets condemned and removed.
- 152 Walls and floors under w.c.'s repaired and stopped.
- 7 New urinals built and old ones repaired.

SINKS.

- 27 New sinks of an impervious pattern provided.

- 65 Brick and cement sinks replaced by impervious ones.
- 67 Scullery sink waste pipes disconnected and trapped.
- 116 Large and offensive grease pits replaced by earthenware traps
- 159 Waste pipes trapped by lead "p" or "s" traps.

BATHS, LAVATORIES AND STACKPIPES.

- 83 Bath and lavatory wastes disconnected and trapped.
- 26 "Bell" traps removed and replaced by gullies.
- 303 Stackpipes disconnected over gulley traps.
- 19 Manure receptacles built for the temporary deposit of stable manure.
- 171 Offensive accumulations removed.
- 57 Leaky roofs and gutters made sound and water-tight.
- 33 Defective floors to back yards repaired or re-paved.
- 49 Rooms and passages cleansed and linewashed.
- 11 Cesspools emptied and filled in.
- 10 Nuisances abated arising from offensive catchpits.
- 67 Galvanized iron receptacles provided for deposit of house refuse.
- 31 Houses provided with ventilation underneath the floors.
- 8 Smoke nuisances abated.
- 19 Nuisances abated arising from improper keeping of animals.
- 28 Rooms provided with proper ventilation.
- 1 Nuisance abated arising from overcrowding.

A daily collection of house refuse has been instituted at the business premises in the following roads, and notices served accordingly :—

Salisbury Road.
 Carnarvon Road.
 Palmerston Road.
 Ashley Road (to railway bridge).
 Haviland Road (part).

DRAINAGE FOR NEW BUILDINGS.

Since October 1st, when the New Drainage Regulations came into force, 46 drains for New Buildings have been subjected to the smoke and water tests.

HOUSE-TO-HOUSE INSPECTION.

During the past year 457 houses have been inspected. The inspection which is being made is not only for the detection of "surface nuisances," but also covers structural alterations, testing, &c. This kind of inspection must necessarily be slower, but it is more thorough and satisfactory in every way.

In all cases where alterations are made for the abatement of nuisances, the works are supervised and, in nearly all instances, are tested before being filled in. This supervision takes up a great deal of time, but it ensures the work being carried out according to the notices served, and more care is exercised on the part of the workmen when they know their work will be tested,

Herewith appended is a summarized list of works executed for the abatement of nuisances which were detected on making a house-to-house inspection of the following roads :—

East District.

Ashley Road (completed)
 Langton Road (completed)
 Salisbury Road
 Carnarvon Road
 Wolverton Road
 Gloucester Place
 Somerset Place
 Tamworth Place
 Wilton Place
 York Place
 Portman Place

West District.

St. Michael's Rise
 West Cliff Grove
 Purbeck Road
 Mannington Place
 and District

Total number of houses inspected	-	-	-	-	-	-	-	457
Number of houses where defects were found to exist in the								
above roads	-	-	-	-	-	-	-	393
Preliminary notices served to remedy these defects-								334
Preliminary notices in hand and not yet served	-	-	-	-	-	-	-	59

WORKS EXECUTED.

DRAINS.

- 85 Drains condemned and replaced by properly constructed new ones.
- 146 Defective house drains cleared from obstruction and repaired
- 103 Drains provided with intercepting traps and fresh air "inlets."
- 26 Disconnecting chambers built
- 18 Stables provided with efficient drainage

VENTILATING SHAFTS.

- 40 Drains ventilated by 4in. shafts.
- 16 Defective zinc ventilating shafts for soil-pipes re-placed by 4in. iron pipes.
- 12 Defective soil-pipes inside houses removed and fixed on outside walls and ventilated
- 27 Nuisances abated arising from defective soil-pipes and ventilating shafts, with leaky joints terminating near the windows.

W.C.'S.

- 1 New w.c. built.
- 61 Defective w.c.'s removed, and re-placed by "valves" or "wash-downs"
- 158 Closets repaired, put in working order, and provided with an effectual flush of water.
- 7 New drawn lead traps and connections and trays provided to w.c.'s.
- 7 w.c.'s provided with efficient light and ventilation
- 4 Closets condemned and removed
- 9 Walls and floors under w.c.'s repaired and stopped

SINKS.

- 19 New sinks of an impervious pattern provided
- 19 Brick and cement sinks re-placed by impervious ones.
- 27 Scullery sink waste pipes disconnected and trapped
- 39 Large and offensive grease pits re-placed by earthenware traps
- 10 Waste pipes trapped by lead "p" or "s" traps.

BATHS, LAVATORIES AND STACKPIPES.

- 6 Bath and lavatory waste pipes disconnected and trapped
- 8 "Bell" traps removed and re-placed by gullies
- 285 Stackpipes disconnected over gully traps.

WATER SUPPLY.

- 2 New cisterns (galvanized iron) have been provided.
- 47 Cisterns cleaned, under notice of advice, and covered.
- 73 Separate supplies taken direct from the main for drinking purposes.
- 25 Defective water fittings, ball cocks, &c., repaired and put in order.
- 1 House provided with water from the Company's main.

MISCELLANEOUS NUISANCES.

- 15 Manure receptacles built for the temporary deposit of stable manure.
- 4 Offensive accumulations removed.
- 93 Leaky roofs and gutters made sound and water-tight.
- 35 Defective floors to back yards repaired or re-paved.
- 57 Rooms and passages cleansed and limewashed.
- 1 Cesspool emptied and filled in.
- 80 Galvanized iron receptacles provided for temporary deposit of house refuse.
- 4 Workshops have been cleansed and limewashed.
- 8 Nuisances abated arising from the improper keeping of animals.
- 23 Houses provided with ventilation under floors.

The following table gives the particulars of the house-to-house inspection, commenced in April, 1891, when the Assistant Sanitary Inspectors were first appointed :—

NUMBER OF HOUSES INSPECTED IN THE

EAST DISTRICT.				WEST DISTRICT.			
1891	-	-	419	1891	-	-	284
1892	-	-	250	1892	-	-	196
1893	-	-	133	1893	-	-	194
1894	-	-	325	1894	-	-	334
1895	-	-	55	1895	-	-	143
1896	-	-	320	1896	-	-	146
1897	-	-	492	1897	-	-	191
1898	-	-	307	1898	-	-	150
<hr/>				<hr/>			
2301				1638			
<hr/>				<hr/>			

The total number of houses inspected- - - 3939
The total number of houses in the Borough according to the
Rate Collector's books - - - 7250

ROADS INSPECTED IN THE
EAST DISTRICT.

1891.

Holdenhurst Road.
Oxford Road.
St. Paul's Road.
St. Paul's Lane.
Garfield Avenue.

1892.

Malmesbury Park Road (old part).
Stewart Road (old part).
Bennett Road (old part).
Southcote Road (part).

1893.

Southcote Road (completed).
Moorland Road.
Spring Road.
Stewart Road.
Stanley Road (part).

1894.

Stewart Road (completed).
Stanley Road.
Malmesbury Gardens.
Victoria Place.
Victoria Road.
Cleveland Road.
Windham Road (part).

1895.

Windham Road (N. side).

1896.

Windham Road (completed).
Boscombe Grove Road.
Hanover Road.
Malmesbury Road.
Tower Road.
Palmerston Road.

ROADS INSPECTED IN THE
WEST DISTRICT.

1891.

Terrrace Road.
Upper Terrace Road.
Tregonwell Road.
Poole Hill District.
St. Michael's Rise.

1892.

Commercial Road (part).
Norwich Lane.
Shaftesbury Terrace.
The Triangle.
St. Peter's Road (part).
West Hill Road (part).
Orchard Street.
Orchard Lane.

1893.

Commercial Road (completed).
Avenue Road.
Lyll Road.
Park Terrace (Westbourne).
Crescent Road.
Bradburne Road.
Old Christchurch Road.
The Arcade.

1894.

Littledown Road.
Lorne Park Road.
Stafford Road.
Madeira Road.
Lansdowne Road (part).
The Quadrant.
St. Peter's Road (part).
Wootton Gardens.
Old Christchurch Rd. (completed).

1895.

Lansdowne Road (completed).
Alum Chine Road.
Middle Road.

1896.

Seamoor Road.
Alumhurst Road.
Drury Road.
Warren Road.
Pine Avenue.

1897.

Gladstone Road.
 Shelley Road.
 North Road.
 Portman Road.
 Haviland Road.
 Ashley Road (part)
 Northcote Road.
 Langton Road.

1897.

Westbourne Park Road.
 Groveley Road.
 Pembroke Road.
 Herbert Road.
 Alumdale Road.
 Beaulieu Road.
 Earle Road.
 Beresford Road.
 Westbourne Arcade.
 Burnaby Road.
 Studland Road.
 Suffolk Road.
 Terrace Road.
 Essex Terrace.

1898.

Ashley Road (completed).
 Langton Road (completed).
 Salisbury Road.
 Carnarvon Road.
 Wolverton Road.
 Gloucester Place.
 Somerset Place.
 Tamworth Place.
 Wilton Place.
 York Place.
 Portman Place.

1898.

St. Michael's Rise.
 West Cliff Grove.
 Purbeck Road.
 Mannington Place and District.

I beg to point out that the sanitary arrangements of the houses examined since the beginning of the year 1893 have been brought up to a higher standard of sanitation, greater powers having been conferred on your Authority by the Bournemouth Improvement Act, 1892.

SANITARY CERTIFICATES AND INSPECTIONS.

During the year 214 applications have been received at the office, and 59 Certificates granted after the sanitary arrangements have been brought up to the standard of the regulations relating to new buildings. Of the remaining 155 applications, the fees were received, and in about 70 instances the Certificates were withheld, as all the requirements of the Regulations were not fully complied with. The remaining 85 includes private schools and for re-inspections of premises previously certified.

STATEMENT OF ACCOUNTS.

Accounts rendered and money received by this Department for the year ending December 31st, 1898 :—

ACCOUNTS RENDERED.

	£	s.	d.	£	s.	d.
1. Maintenance of Patients, &c., at the Sanitary Hospital - - - - -	357	19	5			
2. Disinfection of Bedding, &c. - - - - -	45	0	2			
3. Sanitary Inspections and Expenses Recoverable for Examination of Drains, &c. - - - - -	231	12	2			
	<hr/>			634	11	9
				<hr/>		

MONEY RECEIVED.

Total amount received and paid to Borough Treasurer - - - - -	593	4	8			
Total of accounts written off by Sanitary Committee - - - - -	40	6	1			
Total of accounts outstanding and recoverable - - - - -	1	1	0			
	<hr/>			634	11	9
				<hr/>		

FACTORY AND WORKSHOPS ACT.

The total number of Workrooms now on the Register is 461, and during the past year "surprise visits" have been made with a view of detecting nuisances arising from overcrowding and dirty and unwholesome workrooms, &c.

The following works have been executed :—

- 121 New cards have been supplied *re* cubic space, &c.
- 15 Nuisances abated arising from overcrowding, &c.
- 2 Nuisances abated arising from improperly ventilated workrooms
- 45 Dirty and unwholesome workrooms cleansed and limewashed
- 9 w.c.'s repaired and put in good working order.
- 2 Drains provided with intercepting traps and fresh air inlet
- 10 Defective house drains cleared from obstruction and repaired
- 2 Nuisances abated arising from defective soil-pipes, ventilating shafts, &c.
- 1 Workshop provided with w.c. accommodation.

In conclusion, I beg to call your attention to the additional work and duties which have been added to this Department during the past year :—

- 1. Disinfection of rooms after phthisis on receipt of certificate from the doctor attending the case.
- 2. Testing of drains and sanitary fittings for New Buildings by the water and smoke tests.
- 3. Samples of milk to be taken periodically and to be submitted to the Public Analyst for analysis.
- 4. Written reports and particulars of each infectious case notified, to be submitted to the Medical Officer of Health,

During the year the following subjects have been reported on and have received your consideration and approval :—

1. Special Reports relating to the Drainage and Regulations for New Buildings and the additional works necessary to obtain a Sanitary certificate.
2. The Sale of Food and Drugs Acts.
3. Revised scale of charges for patients at the Hospital.
4. Regulations for the duties of the Sanitary Inspectors.

It is gratifying to be able to state that notwithstanding the large amount of work carried out in effecting private sanitary improvements in properties, it has not been found necessary to apply for magisterial aid in a single instance.

I remain, Gentlemen,

Yours obediently,

WM. GEO. COOPER,

Chief Sanitary Inspector.